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(11)

EP 0 774 868 B1

(12)

## **EUROPEAN PATENT SPECIFICATION**

- (45) Date of publication and mention of the grant of the patent: 28.08.2002 Bulletin 2002/35
- (51) Int CI.7: H04N 7/173, H04N 5/445
- (21) Application number: 96117991.8
- (22) Date of filing: 09.11.1996
- (54) A scheduler method employing a gopher for use in a television receiver Verfahren für menugesteuerte Ablauffolgeplanung zur Benutzung in einem Fernsehgerät Procédé de planification utilisant un menu pour l'utilisation dans un récepteur de télévision
- (84) Designated Contracting States: **DE FR GB IT**
- (30) Priority: 17.11.1995 US 6889 15.12.1995 US 574440
- (43) Date of publication of application: 21.05.1997 Bulletin 1997/21
- (60) Divisional application: 01101589.8 / 1 126 700 01101582.3 / 1 102 480
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- (56) References cited: WO-A-93/22877

WO-A-94/14282

PROCEEDINGS FROM ELEVEN TECHNICAL SESSIONS OF THE ANNUAL CONVENTION AND EXPOSITION OF THE NATIONAL CABLE TELEVISION ASSOCIATION, SAN FRANCISCO, JUNE 6 - 9, 1993, no. CONVENTION 42, 6 June 1993, RUTKOWSKI K, pages 223-236, XP000410503 BESTLER C: "FLEXIBLE DATA STRUCTURES AND INTERFACE RITUALS FOR RAPID DEVELOPMENT OF OSD APPLICATIONS"

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[0001] The subject invention concerns a method for scheduling the selection of a television program for watching or recording at some future date.

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[0002] The programming of modern television systems, such as TV schedulers, VCRs, and Satellite Receivers has become more complicated in that the number of available channels has increased dramatically of late. For example RCA® DSS® direct broadcast satellite receivers provide as many as 150 channels to choose from. Heretofore, a user who wanted to record a specific non-regularly scheduled television program such as the airing of a particular movie, would regularly consult a television schedule printed in his local newspaper in the hope that he would eventually find that movie listed

[0003] Such a practice may work well when there are only a few television channel schedules to examine, however, it is unlikely that a viewer would be able to examine the complete schedules for 150 television channels each week. Such a task would be daunting even if all of the movies were to be listed separately, as some television program listings do. Consequently, it is felt that as the number of channels increases, the chances 25 of successfully locating a single occurrence of a program (like a needle in a haystack) becomes more and more unlikely.

[0004] The document W0 93/22977 describes an electronic program guide system featuring a carousel menu system. The programs resulting from the search are shown in a list.

[0005] The invention concerns a method for locating a program within an electronic program guide associated with a television system, the method comprising:

formatting the electronic program guide into a grid format comprising channel information on one axis and time information on another axis, each grid in the format representing a respective program to be shown on a respective channel and a respective time period as indicated by said respective axes: entering search criteria for searching said electronic program guide;

searching said electronic program guide, in response to said search criteria, for one or more programs that satisfy said search criteria;

## characterized in that

an indication of successive programs meeting said search criteria is provided by a grid highlight which is arranged to shift from a first matching entry grid to a second matching entry grid in response to a user re-

[0006] According to an embodiment of the invention, the successive programs are (1) later in time and/or (2) available on a different channel.

[0007] According to an embodiment of the invention,

the method further comprises the step of displaying said search criteria concurrently with said electronic program guide.

[0008] FIGURES 1a-1c are illustrations of a screen display of a portion of a channel guide, in accordance with one aspect of the invention.

[0009] FIGURE 2 is an illustration of a screen display showing a search request screen in accordance with another aspect of the invention.

[0010] FIGURE 3 is an illustration of a screen display of a portion of a channel guide showing auxiliary program information.

[0011] FIGURE 4 is an illustration in block diagram form of apparatus suitable for use with the invention.

[0012] FIGURE 5 is an illustration of a search request list in accordance with the subject invention.

[0013] FIGURE 6 is an illustration of a screen display useful for entering text search phrases in accordance with the invention.

[0014] FIGURE 7 is a flowchart useful in understanding the invention.

[0015] Television systems such as the RCA® DSS® direct broadcast satellite system and Starsight® transmit channel guides for display on the television receivers of subscribers.

[0016] FIGURES 1a-1c show Program Guide screen displays produced, for example, by an RCA® DSS® direct broadcast satellite receiver system, manufactured by Thomson Consumer Electronics, Inc. Indianapolis, IN. A user selects a television program from a Program Guide for viewing, by moving a cursor (via operation of remote control up, down, right, and left, direction control keys, not shown) to a block of the program guide screen display which contains the name of the desired program. When a SELECT key on the remote control is pressed, the current x and y position of the cursor is evaluated to derive virtual channel and program time information. In this example of FIGURE 1a, a particular television show, EVENING NEWS has been highlighted for selection by use of the cursor keys on a remote control unit (e. g., 450R of FIGURE 4). The highlighting is illustrated by the dark box outlining the title in FIGURES 1a-1c. Normally, upon pressing the select key, the relevant programming data is transferred to a programming unit.

[0017] However, note the phrase "ENTER ALL OR PART OF A PROGRAM NAME TO SEARCH" which appears at the bottom of FIGURE 1a. In this case the word "HOME" has been entered by a user. Upon pressing the MENU key, a search of the channel guide information is performed for the next occurrence of a television program including the word "HOME" in its title. At the completion of the search, the screen display of FIGURE 1b is generated. Note that a television program on channel 106 entitled "HOME IMPROVEMENT" is now highlighted. If desired, a further search can be initiated by pressing the MENU key again. The result of that further

search is shown in the screen display of FIGURE 1c. Note that in FIGURE 1c, a television program on channel 305, "HOME AND GARDEN" is highlighted, because that title includes the word "HOME", and thus satisfies the search criteria. The subject apparatus can also perform "substring searching" wherein the keyword (search term) is contained within another word. For example, a substring search on the word HOME would find the movie title "HOMEWARD BOUND". Similarly, the search can be made case sensitive, or case insensitive, as desired.

[0018] FIGURE 2 shows a "GOPHER PROGRAM" screen display 210 useful for entering text to be searched, and for entering instructions to be executed in the event that the search is terminated. The search entered on screen display 210 will perform the logical "AND" function on the search terms "ZULU" (a movie title) and "MICHAEL CAINE" (one of ZULU'S stars). While a logical "AND" function is shown, logical "OR" and "NOT" functions are also envisioned. In fact, a logical "OR" function could simply be performed by entering the search terms as two different searches. That is, if the search term "ZULU" were entered by itself, the movie "ZULU" AND any television program concerning the ZULU tribe would be selected. If the search term "MICHAEL CAINE" were entered as a separate search, the movie "ZULU" and any other movie starring Michael Caine would be selected.

[0019] Note from screen display 210, that when the movie "ZULU" is found, it is to be recorded. That is, after entering the search terms and instructions via screen display 210, the user does not have to perform any further function (other than ensuring that the VCR has a tape in it) to secure a recording of the movie "ZULU" whenever it is aired. At the proper time the apparatus of the invention will transmit the record commands to the VCR, automatically. Alternatively, the user may have checked the box labelled DISPLAY A "PROGRAM LOCATED" MESSAGE, in which case the show will not be recorded, but rather a reminder will be displayed indicating that the search has successfully terminated upon finding the requested item.

[0020] FIGURE 3 shows a Program Guide screen 310, including an auxiliary information display 320. The text of auxiliary display 320 includes the search terms "ZULU" and "MICHAEL CAINE" in the program description. This text will be searched by the GOPHER PROGRAM and the search will come to a successful conclusion. Note that a search of "ZULU" and "STANLEY BAKER" would have been equally successful. It is important to note that not only is the Program Guide text, but also the auxiliary information associated with the television programs, is being searched.

[0021] As noted above, the channel guide data used by the controller of the subject apparatus to form the above-described interactive or confirmation sentences may be received from a satellite television communication system. FIGURE 4 shows such a satellite television communication system in which, a satellite 400S receives a signal representing audio, video, or data infor-

mation from an earth-based transmitter 400T. The satellite amplifies and rebroadcasts this signal to a plurality of receivers 400R, located at the residences of consumers, via transponders operating at specified frequencies and having given bandwidths. Such a system includes an uplink transmitting portion (earth to satellite), an earth-orbiting satellite receiving and transmitting unit, and a downlink portion (satellite to earth) including a receiver located at the user's residence.

[0022] In such a satellite system, the information necessary to select a given television program is not fixedlyprogrammed into each receiver but rather is down-loaded from the satellite continually on each transponder. The television program selection information comprises a set of data known as a Master Program Guide (MPG), which relates television program titles, their start and end times, a virtual channel number to be displayed to the user, and information allocating virtual channels to transponder frequencies and to a position in the timemultiplexed data stream transmitted by a particular transponder. In such a system, it is not possible to tune any channel until the first master program guide is received from the satellite, because the receiver (IRD, or Integrated Receiver Decoder) literally does not know where any channel is located, in terms of frequency and position (i.e. data time slot) within the data stream of any transponder.

[0023] A master program guide is preferably transmitted on all transponders with the television program video and audio data, and is repeated periodically, for example, every 2 seconds. The master program guide, once received, is maintained in a memory unit in the receiver, and updated periodically, for example every 30 minutes. Retention of the master program guide allows instantaneous television program selection because the necessary selection data are always available. If the master program guide were to be discarded after using it to select a television program, then a delay of at least two seconds would be incurred while a new program guide was acquired, before any further television program selections could be performed.

[0024] Once the channel transponder carrying a desired television program is tuned, the data packets containing the audio and video information for that program can be selected from the data stream received from the transponder by examining the data packets for the proper SCID (Service Component Identifier) 12 bit code. If the SCID of the currently received data packet matches the SCID of the desired television program as listed in the program guide, then the data packet is routed to the proper data processing sections of the receiver. If the SCID of a particular packet does not match the SCID of the desired television program as listed in the program guide, then that data packet is discarded.

6 [0025] A brief description of system hardware, suitable for implementing the above-described invention, now follows. In FIGURE 4, a transmitter 400T processes a data signal from a source 401 (e.g., a television signal source) and transmits it to a satellite 400S which receives and rebroadcasts the signal to a receiving antenna 400A which applies the signal to a receiver 400R. Transmitter 400T includes an encoder 410T, a modulator (i.e., modulator/forward error corrector (FEC)) 420T, and an uplink unit 430T. Encoder 410T compresses and encodes signals from source 401 according to a predetermined standard such as MPEG. MPEG is an international standard developed by the Moving Picture Expert Group of the International Standards Organization for coded representation of moving pictures and associated audio stored on digital storage medium. An encoded signal from unit 410T is supplied to modulator/Forward Error Corrector (FEC) 420T, which encodes the signal with error correction data, and Quaternary Phase Shift Key (QPSK) modulates the encoded signal onto a carrier. [0026] Uplink unit 430T transmits the compressed and encoded signal to satellite 400S, which broadcasts the signal to a selected geographic reception area. The signal from satellite 400S is received by an antenna dish 400A coupled to an input of a so-called set-top receiver 400R (i.e., an interface device situated atop a television receiver). Receiver 400R includes a demodulator (demodulator/Forward Error Correction (FEC) decoder) 410R to demodulate the signal and to decode the error correction data, an IR receiver 412 for receiving IR remote control commands, a microprocessor 415R, which operates interactively with demodulator/FEC unit 410R, and a transport unit 420R to transport the signal to an appropriate decoder 430R within unit 400R depending on the content of the signal, i.e., audio or video information. An NTSC Encoder 440R encodes the decoded signal to a format suitable for use by signal processing circuits in a standard NTSC consumer VCR 402 and standard NTSC consumer television receiver 403, Microprocessor (or microcontroller, or microcomputer) 415R receives infrared (IR) control signals from remote control unit 450R, and sends control information to VCR 402 via an IR link 418R. Microprocessor 415R also generates the on-screen display (OSD) signals needed for presenting the interactive sentence, or confirmation sentence, to the user. Microprocessor 415R also receives and interprets cursor key X and Y information in order to control the highlighting of user choices in the on-screen displays.

[0027] FIGURE 5 shows a search request list which may be displayed as a screen display. In this embodiment of the invention, three actions are possible. First, as noted above, a show may be programmed to be recorded at its next airing without further intervention by the user. Second, as noted above, a reminder can be displayed on-screen that the desired program has been found. Third, a report listing various programs meeting the search criteria and airing in the immediate future (for example, the next three hours) can be prepared and displayed. In the example of FIGURE 5, the user has requested that he be reminded anytime an episode of Star Trek appears in the Program Guide. The user has also

requested that the movie "The Shining" be recorded the next time it is found in the guide. The user has also requested that he be reminded anytime the word "robot" appears in the guide or in the program descriptions of the guide. These instructions will run until turned off by the user. The remaining search (i.e., movie, drama, now) is a request which indicates that the user wants to know which dramas are being aired in the immediate future (i.e., within the next three hours). The controller will prepare a report listing all dramatic movies on all channels which are being broadcast in the next few hours. After doing so, this entry will be automatically deleted. It is further envisioned that a user may review and edit or delete search terms in order to modify on-going searches.

[0028] FIGURE 6 shows a screen display of a "virtual keyboard" useful for entering search data. Four "Search Gophers" called "Watchdogs" are programmable for performing simultaneous searches of the Program Guide and auxiliary information data streams. By using the cursor and select keys, a user can "press" one of the watchdog buttons on the left of the screen to select it. He may then use the alphabet keys to enter his search request. (While not explicitly shown, alphanumeric keys are also envisioned). When the user is satisfied with the text of his search request, he may press the Save key to save the search terms for this watchdog search process. If he makes an error, he may delete the error with the clear key.

[0029] The Gopher program is entered at step 700 of FIGURE 7. At step 705, the search terms are retrieved. At step 710, the Program Guide data is acquired. At step 715 a comparison is made to see if a match exists. If not the program is exited at step 720. If a match does exist, then the user-entered instructions are retrieved. A check is made at step 725 to determine if a record instruction has been entered, if so the routine advances to step 730 at which the record commands are transmitted to the VCR either immediately or at an appropriate later time. The routine is then exited at step 735. If however, a record instruction was not entered then the routine advances to step 740 at which a reminder message is generated for display, either immediately or at an appropriate later time as a "last minute reminder" before the desired show is broadcast, or both. The routine is then exited at step 735.

[0030] Although the invention was described with reference to a satellite television system, it is equally applicable to ground based television broadcast systems, both digital and analog.

## Claims

 A method for locating a program within an electronic program guide associated with a television system, the method comprising: 20

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formatting the electronic program guide into a grid format comprising channel information on one axis and time information on another axis, each grid in the format representing a respective program to be shown on a respective channel and a respective time period as indicated by said respective axes:

entering (210) search criteria for searching said electronic program guide;

searching (710, 715) said electronic program guide, in response to said search criteria, for one or more programs that satisfy said search criteria;

#### characterized in that

an indication of successive programs meeting said search criteria is provided by a grid highlight which is arranged to shift from a first matching entry grid to a second matching entry grid in response to a user request.

- The method of Claim 1 wherein said successive programs are (1) later in time and/or (2) available on a different channel.
- The method of Claim 1 or 2 wherein said method further comprises the step of displaying said search criteria concurrently with said electronic program guide.

## Patentansprüche

 Verfahren zum Auffinden eines Programms in einem zu einem Fernsehsystem gehörenden elektronischen Programmführers mit:

Formatierung des elektronischen Programmführers in ein Gitterformat mit Kanalinformationen auf einer Achse und Zeitinformationen auf einer anderen Achse, wobei jedes Gitter in dem Format ein auf einem jeweiligen Kanal gezeigtes Programm und eine Zeitperiode darstellt, wie sie durch die jeweiligen Achsen angedeutet eine

Eingabe (210) von Suchkriterien zum Suchen des elektronischen Programmführers,

Suchen (710, 715) des elektronischen Programmführers durch die Suchkriterien für ein oder mehrere Programme, die die Suchkriterien erfüllen.

## dadurch gekennzeichnet, daß

eine Anzeige von aufeinanderfolgenden Programmen, die die Suchkriterien erfüllen, durch eine Gitterhervorhebung erfolgt, die sich von einer ersten übereinstimmenden Gittereingabe zu einer zweiten übereinstimmenden Gittereingabe auf-

grund einer Benutzeranforderung verschiebt.

- Verfahren nach Anspruch 1, wobei die aufeinanderfolgenden Programme (1) zeitlich später liegen und/oder (2) auf einem anderen Kanal verfügbar sind.
- Verfahren nach Anspruch 1 oder 2 mit dem Schritt der Wiedergabe der Suchkriterien gleichzeitig mit dem elektronischen Programmführer.

#### Revendications

 Un procédé pour localiser un programme au sein d'un guide électronique de programmes associé à un système de télévision, ce procédé incluant :

> le formatage du guide électronique des programmes sous un format de grilles comportant des informations sur les chaînes sur l'un des axes et des informations temporelles sur l'autre axe, chaque grille du format représentant un programme spécifique à être montré sur une chaîne donnée et une période de temps particulière, comme indiqué sur les axes correspondants:

> la saisie (210) de critères de recherche dans le guide électronique des programmes ;

la recherche (710, 715) dans le guide électronique des programmes, en réponse aux critères de recherche, d'un ou de plusieurs programmes répondant aux critères;

## caractérisé par :

une indication des programmes successifs répondant aux critères de recherche, fournie grâce à un marquage de grille, organisé de façon à passer d'une grille d'une première entrée répondant aux critères à une grille d'une seconde entrée répondant aux critères, en réponse à une demande de l'utilisateur.

- Un procédé conforme à la revendication 1, où les programmes successifs sont (1) diffusés ultérieurement et/ou (2) disponibles sur une autre chaîne.
- Un procédé conforme à la revendication 1 ou 2, où le procédé comprend également une étape d'affichage simultané des critères de recherche et du guide électronique des programmes.

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CH 150	Prog	ram Guide	<del></del>	7:05pm	1
	7:00pm	7:30pm	8:00pm		
нВО 102	OTHER PEOPLE'S MON		FREE PREVIEW	8:30pm OREAMON	†
CB\$	EVENING NEWS	HONE IMPROVEMENT	GROOKLYN BRIDGE	RAVEN	†
UPN 113	STAR TREK. V	OYAGER	ENTERTAINMENT TONIGHT	WORLD NEWS	†
CINE 210	EYEWITNESS	FUH CITY	<u> </u>	DOUBLE TROUBLE	Fig. 1a
CHIN 305	PRIME NEWS	BOTH SIDES	RELIABLE SOURCES	RELIABLE HOME AND GARDEN	
USA 422	COUNTER STRIKE	<del></del>	QUANTUMLEAP		
HORE	HOVES	SPORTS (	OTHER ALL	Date	1
ENTER A	ALL OR PART OF PROGR	AM NAME TO SEARCH	HOME	· · · · · · · · · · · · · · · · · · ·	1
CH 150	Prog	ram Guide		7:05pm	, ]
	7:00pm	7:30pm ·	8:00pm	8:30pm	
HBO 102	OTHER PEOPLE'S MON	EY	FREE PREVIEW	DREAMON	
CBS 106	EVENING NEWS	HOME IMPROVEMENT	BROOKLYN SRIGE	SAVEN	
UPN 113	STAR TREK: V	OYAGER	ENTERTANMENT TONIGHT	WORLD NEWS	Fig. 1b
CINE 210	EYEWITHESS	YEWITHESS FUN CITY		OOUBLE TROUBLE	1.3.
CNN 305	PRIME NEWS	BOTH SIDES	SOURCES	HOME AND GARDEN	
USA 422	COUNTER STRICE QUANTUM LEAP		QUANTUM LEAD		
MORE	MOVES	SPORTS (	THER ALL	EXIT	
HOME F	FOUND. PRESS MENU A	gan to find anothe	A OCCURRENCE		
CH 150	Prog	ram Guide		7:05pm	]
	7:00pm	7:30pm	8:00pm	8:30pm	}
HBO 102			FIEE PREVIEW	DREAM ON	1
CBS 104	HEM? EAEKING	HOME REPROVENENT	BROOKLYN BRIDGE	raven	
UPN 113	STAR THEK: VOYAGER		ENTERTABLIENT TONIGHT	WORLD NEWS	Fig. 1c
CINE 210	EYEWITHESS FUN CITY			TROUBLE	
CHN 305	PRIME NEWS	BOTH SIDES	RELIABLE, SOURCES	HOME AND GARDEN	
USA 422	COUNTER STRIKE	•	QUANTUMLEAP		
MORE	MOVES '	SPORTS	OTHER ALL	EXIT	]
HOME	FOUND. PRESS MENU A	IGAIN TO FIND ANOTH	EN OCCURRENCE		

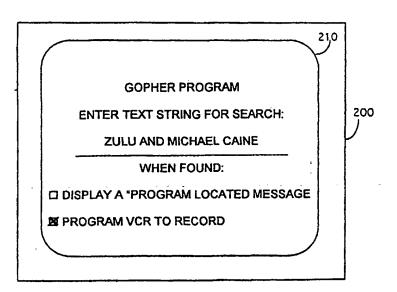
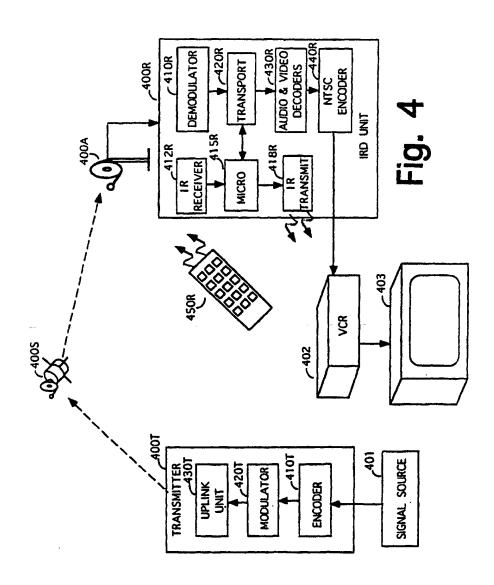


Fig. 2

TOOPM STARRING: STANLEY BAKER & MICHAEL C STANLEY BAKER & MICHAEL C STANLEY BAKER RATING: PG-13 (VIOLENCE)  OTHER PEOPLE'S MONEY REVIEW: 大文之 1  EVENING TUB SOLDIERS IN LATE 19TH CENTURY SOUTH AFRICA BY 40,000 ZULU WARRIORS.  CINE SATURDAY NIGHT MOVIE: ZULU  RELIABLE WORLD  PRIME SOURCES NEWS  COUNTER STRIKE  ANNIES SIDES  OTHER AN I	СН 150	lada	Progran	Program Guide			7:05pm	
EVENING FRA PLOT:  NEWS STAR TREK: VOYA ATTAC  CINE SATURDAY NIGHT MOVIE:  PRIME BOTH  NEWS SIDES  COUNTER STRIKE		7:00pm		MOVIE TITLE: STARRING: PRODUCER: RATING:	ZULU STANLEY B. STANLEY B. PG-13 (VIC	aker & Michael Aker Yence)	CAINE	310
NEWS  TUB SOLDIE STAR TREK: VOYA ATTAC  GINE SATURDAY NIGHT MOVIE: PRIME BOTH NEWS SIDES COUNTER STRIKE		OTHER PEOPLI	E'S MONEY	REVIEW:	なななう			
CINE SATURDAY NIGHT MOVIE: ZULU  PRIME  PRIME  RELIABLE  WORLD  COUNTER STRIKE  COUNTER STRIKE		EVENING NEWS	FRA	PLOT:	Y OUTNUMBERE TE 19TH CENT	ed company of Tury south afr	BRITISH ICA	( So
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MOMES SDORTS OTHER	<b>₹</b> 2	COUNTER ST	RIKE	·	QUANTUM LE	φ		
MOVIES STONIS OTHER PER	MORE			SPORTS	OTHER	ALL	EXIT	

Fig. 3



TITLE	TOPIC	THEME	KEYWORD	ACTION	TIME
Star Trek				remind	always
The Shining			<u> </u>	record	always
	movie	drama		report	поw
			robot	remind	always

Fig. 5

TIMER 1	Matchdog 1 will search  (titles and descriptions) for  (B	ther watch or record this program.	ט טיּבּ
Exit Help	Watchdog 1 Watchdog 2 Watchdog 3 Watchdog 4	Press MENU to either Press > to continue.	

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